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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/685,026	10/14/2003	Andrew J. Wright	NLMI.P164	4857	
30554 75	90 11/27/2006		EXAMINER		
SHEMWELL MAHAMEDI LLP			TRUONG, LOAN		
4880 STEVENS CREEK BOULEVARD SUITE 201			ART UNIT	PAPER NUMBER	
SAN JOSE, CA 95129		•	2114	2114	
			DATE MAILED: 11/27/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		10/685,026	WRIGHT ET AL.				
		Examiner	Art Unit				
		LOAN TRUONG	2114				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address				
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period ver to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status							
1)	Responsive to communication(s) filed on Septe	ember 18 2006					
<i>'</i> ==	· · · · · · · · · · · · · · · · · · ·	action is non-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
٠,۵	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims	,					
·	Claim(s) 1-30 is/are pending in the application.						
, —	4a) Of the above claim(s) is/are withdrawn from consideration.						
	· · · · · · · · · · · · · · · · · · ·						
6)	5)⊠ Claim(s) <u>1-16 and 22-30</u> is/are allowed.						
7)							
. /	Claim(s) <u>20</u> is/are objected to.	r election requirement					
8) Claim(s) are subject to restriction and/or election requirement.							
Applicat	ion Papers						
9)[	The specification is objected to by the Examine	r.	·				
10)🛛	10)⊠ The drawing(s) filed on <u>15 March 2004</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority (	under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
2) 🔲 Notic 3) 🔯 Infor	et(s)  te of References Cited (PTO-892)  te of Draftsperson's Patent Drawing Review (PTO-948)  mation Disclosure Statement(s) (PTO/SB/08)  tr No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate				

## **DETAILED ACTION**

1. This office action is in response to applicants' argument mailed on September 18, 2006.

## Response to Arguments

2. Applicant's arguments filed September 18, 2006, have been fully considered but they are not persuasive.

In regard to claims 17-19 and 21, applicant stated that the Roth provisional is not relied on in the Office action. Examiner would like to clarify that the effective filling date of Roth et al. (US application # 10/724,576) is Nov. 29, 2002, having claims priority from US Provisional Patent Application Ser No. 60/429,559. Therefore the rejections on claims 17-19 and 21 are maintained.

### Allowable Subject Matter

3. Claims 1-16and 22-30 are allowed.

The following is an examiner's statement of reasons for allowance:

The examiner deem claims 1-16 and 22-30 as novel when read as a whole for:

A comparator coupled to compare a search key value against the first and second the limitations of a content addressable memory (CAM) comprising: sets of values and report an error if a first location within the first set of CAM locations that produces a match is different from a first location within the second set of CAM locations that produces a match, regardless of whether the match suppression bit is set.

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An error location circuit coupled to check the first and second sets of values using the error detection encoded bits and to record, as a result of the check whether the error is within the first set of values, the second set of values, or both.

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Generating an error if the first location within the first set of CAM locations is at a different index than the first location within the second set of CAM locations.

Copying over one of the duplicative sets of values within the first set of CAM locations having a recorded error from a set of values within the second set of CAM locations and having the same index as the first set of CAM locations if there was no error recorded at an index in the second set.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

4. Claim 20 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

#### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. Claims 17-19 and 21 are rejected under 35 U.S.C. 102(e) as being anticipated by Roth et al. (US 2005/0001744).

In regard to claim 17, Roth et al. disclosed a content addressable memory (CAM), comprising:

A first block of CAM locations coupled to store a first set of values (PE Block 0, fig. 2, 205, 206);

A second block of CAM locations coupled to store a second set of values (*PE Block 1*, fig. 2, 205, 206); and

An input control circuit (MMFin, fig. 4b) coupled to the first and second blocks of CAM locations (MF0 and MF1, fig. 4b, 422, 426) that selects if the first and second sets of values are to be duplicative of each other (MMFout, fig. 4b, 422, 426).

In regard claim 18, Roth et al. disclosed the CAM as recited in claim 17, further comprising an output control circuit coupled to:

Receive a signal from the input control circuit indicating if the first and second sets of values in the respective first and second blocks of CAM locations are duplicative of each other or not (MMFin, fig. 4b); and

Select a first set of values from the first block of CAM locations (lower physical address is a higher priority and B<A, subtractor outputs a high, paragraph 0047), a second set of values from the second block of CAM locations (B>A, subtractor outputs a low, paragraph 0047), or both the first and second sets of values from the respective first and second blocks of CAM locations (A=B, Subtractor outputs a low, fig. 4a, 404, paragraph 0047).

In regard to claim 19, Roth et al. disclosed the CAM as recited in claim 18, wherein the output control circuit provides a priority order (each 2:1 sub PE determines which of its two inputs (block) has the highest priority match, paragraph 0044) by which the first set of values from the first block of CAM locations and the second set of values from the second block of CAM locations are compared against a search key value relative to other sets of values within the first and second blocks of CAM locations (CAM takes a search word and performs a search and-compare operation for that search word through the entries stored in the CAM, paragraph 0004).

In regard to claim 21, Roth et al. disclosed the CAM as recited in claim 18, further comprising a plurality of CAM block pairs, whereby each pair is coupled to operate independent of other CAM block pairs (*PE Block 0-127, fig. 2, 205, 206*).

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#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTO 892.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LOAN TRUONG whose telephone number is (571) 272-2572. The examiner can normally be reached on M-F from 8am-4pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, SCOTT BADERMAN can be reached on (571) 272-3644. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

SCOTT BADERMAN
SUPERVISORY PATENT EXAMINER